

ASSIGNMENT 13

Textbook Assignment: "Materials Testing: Soil and Concrete." pages 15-1 through 15-39.
"Administration." Pages 16-1 through 16-14.

13-1. Which of the following substances is/are enclosed by the mineral grains in a soil mixture?

1. Air or gases only
2. Water only
3. Organic matter only
4. Voids containing air, gases, water, and organic matter or any combination of these

13-2. Rock is classified into how many groups?

1. One
2. Two
3. Three
4. Four

13-3. What type of rock is formed from the accumulation and cementing of plant and animal remains?

1. Metamorphic
2. Sedimentary
3. Igneous
4. Organic

13-4. By what process are residual and transported soils formed?

1. Disintegration
2. Weathering
3. Decomposition
4. Atmospheric exposure

IN ANSWERING QUESTIONS 13-5 THROUGH 13-7, SELECT THE KEY WORDS OR PHRASES THAT BEST MATCHES THE TYPE OF SOIL LISTED.

- | |
|------------------------|
| A. FRESHWATER LAKE |
| B. ESKERS |
| C. LOESS |
| D. IN-PLACE WEATHERING |

13-5. Residual soil.

1. A
2. B
3. C
4. D

13-6. Lacustrine soil.

1. A
2. B
3. C
4. D

13-7. Glacial soil.

1. A
2. B
3. C
4. D

13-8. According to the Unified Soil Classification System, materials retained on the No. 200 sieve and passing the No. 4 sieve are classified as

1. coarse grained
2. sands
3. fines
4. medium fines

13-9. Which of the following bulky particle shapes is considered to be the most desirable for construction purposes because of its interlocking characteristic?

1. Rounded
2. Subrounded
3. Subangular
4. Angular

13-10. A well-graded soil consists of which of the following particle sizes?

1. Only intermediate sizes
2. Large and small sizes only
3. Uniformly graded sizes
4. A good representation of all sizes

13-11. A well-graded soil provides which of the following conditions?

1. Maximum displacement of particles
2. Maximum density and stability of particles
3. Minimum displacement of voids
4. Each of the above

13-12. In most inorganic soils, the specific gravity of the solid substance has what minimum to maximum range?

1. 2.60 and 2.65
2. 2.60 and 2.80
3. 2.65 and 3.00
4. 3.00 and 3.50

3-13. In which of the following ways can water enter a layer of soil mass?

1. By gravitational pull
2. By capillary action
3. By absorption
4. Each of the above

13-14. When soil is subjected to loading, what soil property has the greatest effect upon its behavior?

1. Specific gravity
2. Moisture content
3. Gradation
4. Plastic and liquid limits

13-15. Which of the following descriptions best defines the term "hygroscopic moisture"? (Hint: Your textbook contains a glossary.)

1. Soil water absorbed by the atmosphere
2. Absorbed moisture in soil at any time
3. Adsorbed moisture in air-dried soil
4. Thin films of water that freely move through soil

13-16. The term "moisture content" refers to which of the following factors?

1. The amount of free water in a soil sample
2. The proportion of the weight of water to the weight of wet soil expressed as a percentage
3. The amount of hydroscopic moisture in a soil sample
4. The proportion of the weight of water to the weight of dry soil expressed as a percentage

13-17. Which of the following properties of a fine-grained soil permits clay to be rolled into thin threads at a certain moisture content without crumbling?

1. Liquidity
2. Plasticity
3. Cohesiveness
4. Consistency

IN ANSWERING QUESTIONS 13-18 THROUGH 13-20, SELECT THE TERM THE THAT BEST MATCHES THE DESCRIPTION LISTED.

- | |
|--|
| <p>A. LIQUID LIMIT
B. PLASTIC LIMIT
C. PLASTICITY INDEX
D. SHRINKAGE LIMIT</p> |
|--|

13-18. The boundary in moisture content between the solid and semisolid state of the soil.

1. A
2. B
3. C
4. D

13-19. The moisture content corresponding to the arbitrary limit between the liquid and plastic states of consistency of a soil.

1. A
2. B
3. C
4. D

13-20. The moisture content at the arbitrary limit between the plastic and semisolid state of a soil .

1. A
2. B
3. C
4. D

13-21. Which of the following constructions would be least affected by soil moisture?

1. An asphaltic-cement road laid on a sand-clay admixture
2. A concrete building foundation laid on a base of fine-grained soil
3. A concrete building foundation laid on a gravel base
4. An asphaltic-cement runway laid on a gravel-clay admixture

13-22. In the Unified Soil Classification System, what category of soil is identified by the presence of large amounts of organic material?

1. Coarse grained
2. Fine grained
3. Peat
4. Sand

13-23. When less than half of the coarse portion of a soil sample is retained on a No. 4 sieve, the sample is classified as what type of soil?

1. Sand
2. Gravel
3. Silt
4. Clay

- 13-24. When you dig test holes with the hand auger, the samples may be completely disturbed, but they are satisfactory for determining which of the following information?
1. Compaction capabilities
 2. Moisture content
 3. Soil profile
 4. All of the above
- 13-25. A soil sample tagged CB-P3-1 was taken from which of the following locations?
1. Project CB, bag No. P3, pit No. 1
 2. Project CB, pit No. 3, location No. 1
 3. Construction battalion pit No. 3, area No. 1
 4. Construction borrow pit No. P3, bag No. 1
- 13-26. Disturbed samples are satisfactory for use in which of the following tests?
1. Unconfined compression
 2. Mechanical analysis
 3. Specific gravity
 4. Both 2 and 3 above
- 13-27. you are taking a moisture content sample that you know will be tested within the next 4 hours. At a minimum, what action, if any, should you take to prevent the evaporation of moisture from the soil?
1. Seal the canister with friction tape
 2. Dip the canister in paraffin
 3. Wrap the canister with a paraffin coated cloth
 4. None, since the test will be performed within 1 day
- 13-28. Soil samples obtained by samplers are used for the testing of which of the following soil properties?
1. In-place density
 2. Shear strength
 3. Compressive strength
 4. All of the above
- 13-29. A chunk sample would be best suited for sampling which of the following soil types?
1. Highly plastic
 2. Cohesionless
 3. Slightly plastic
 4. Moderately cohesive
- 13-30. you are obtaining an undisturbed soil sample using the CBR mold. After removing the CBR mold and sample from the hole, which of the following steps should you take next?
1. Trim out a $\frac{1}{2}$ -inch recess in the top of the mold
 2. Coat the top of the sample with paraffin
 3. Remove the upper collar of the mold
 4. Trim out both ends of the mold before sealing the sample ends with paraffin
- 13-31. One way to be certain that a soil sample used is representative of the whole sample is by using which of the following methods?
1. Straining
 2. Soaking
 3. Halving
 4. Quartering
- 13-32. When quartering a sample, what quarter(s), if any, should you discard?
1. Any single quarter
 2. Two adjacent quarters
 3. Two diagonally opposite quarters
 4. None
- 13-33. For a complete soil test, identify the logical sequence of the following procedures.
- | |
|--|
| <ol style="list-style-type: none"> A. Determine the specific gravity of representative samples. B. Determine the moisture content of representative samples. C. Determine moisture-density relationship. D. Determine grain size and distribution. E. Determine the field moisture content. F. Determine Atterberg limits. |
|--|
1. A, B, F, C, E, D
 2. B, C, A, D, F, E
 3. B, D, A, F, C, E
 4. B, D, C, A, E, F

TEST NATURAL SOIL MOISTURE CONTENT						
RUN NUMBER	1	2	3			
TARE NUMBER	6	7	9			
A. WEIGHT OF TARE + WET SOIL	196.4	187.3	209.6			gm
B. WEIGHT OF TARE + DRY SOIL	176.8	169.9	190.2			gm
C. WEIGHT OF WATER, $W_w = (A - B)$						gm
D. WEIGHT OF TARE	43.6	44.0	46.4			gm
E. WEIGHT OF DRY SOIL, $W_s = (B - D)$						gm
WATER CONTENT, w	%	%	%	%	%	

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Figure 13A

IN ANSWERING QUESTIONS 13-34 THROUGH 13-37, REFER TO FIGURE 13A WHICH IS A TABLE OF VALUES FOR THREE MOISTURE CONTENT TESTS ON A TYPICAL SOIL SAMPLE. COMPUTE THE WATER CONTENT OF EACH RUN.

13-34. What is the dry weight of the soil in run number 1?

1. 176.8 g
2. 152.8 g
3. 143.6 g
4. 133.2 g

13-35. What is the weight of water in run number 2?

1. 17.4 g
2. 17.6 g
3. 18.4 g
4. 18.6 g

13-36. What is the water content of run number 3?

1. 13.0%
2. 13.2%
3. 13.5%
4. 17.4%

13-37. What is the average moisture content of the three runs?

1. 13.4%
2. 14.0%
3. 31.1%
4. 41.9%

13-38.

The results of a sieve analysis shows 100% passing the 1 3/4-, 1 1/2-, and 1 1/4-inch sieves and 99% passing the 1-inch sieve. What should be the first sieve size entered on the data sheet?

1. 1
2. 1 1/4
3. 1 1/2
4. 1 3/4

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SIEVE ANALYSIS DATA			DATE <i>11 July 19 -</i>
PROJECT		EXCAVATION NUMBER <i>2</i>	SAMPLE NUMBER <i>FT-P1-1</i>
DESCRIPTION OF SAMPLE <i>25 lb. bag sample</i>			PREWASHED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
WEIGHT ORIGINAL SAMPLE (gm) <i>1632.8</i>	WEIGHT AFTER PREWASHING ¹ (gm)	WASHING LOSS ¹ (gm)	
SIEVE OR SCREEN <i>a</i>	WEIGHT RETAINED ON SIEVE (gm) <i>b</i>	PASSING SIEVE	
		WEIGHT (gm) <i>c</i>	PERCENT <i>d</i>
*	0		100
<i>3/4</i>		<i>1632.8</i>	<i>100.0</i>
<i>1/2</i>	<i>394.8</i>	<i>1238.0</i>	
<i>3/8</i>	<i>217.3</i>	<i>1020.7</i>	
<i>No. 4</i>	<i>176.2</i>	<i>844.5</i>	
<i>10</i>	<i>189.4</i>	<i>655.1</i>	
<i>20</i>	<i>362.1</i>	<i>293.0</i>	
<i>40</i>	<i>108.3</i>	<i>184.7</i>	
<i>100</i>	<i>140.2</i>	<i>44.5</i>	
NUMBER 200	<i>29.8</i>	<i>20.7</i>	
A WEIGHT SIEVED THROUGH NO. 200 (gm) <i>18.3</i>		ERROR (Original weight - total weight of fractions) (gm) $\left(\frac{\text{Error (gm)}}{\text{Original weight (gm)}} \times 100 \right) =$	
B WASHING LOSS ¹ (gm)			
C TOTAL PASSING NO. 200 (gm) (A + B) <i>18.3</i>		PERCENT ERROR $\left(\frac{\text{Error (gm)}}{\text{Original weight (gm)}} \times 100 \right) =$	
TOTAL WEIGHT OF FRACTIONS (Total of all entries in Col. b + c)			
REMARKS			
TECHNICIAN (Signature)		COMPUTED BY (Signature)	CHECKED BY (Signature)

¹ For prewashed samples only * Maximum particle size

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Figure 13B

IN ANSWERING QUESTIONS 13-39 THROUGH 13-42, REFER TO FIGURE 13-B.

- 13-39. What percentage of the material tested passed the No. 40 sieve?
1. 17.9%
 2. 11.3%
 3. 10.2%
 4. 2.7%
- 13-40. What is the percentage of error in the soil sample?
1. 1.5%
 2. 1.4%
 3. 0.15%
 4. 0.14%
- 13-41. The soil sample predominantly consists of what type of material?
1. Cobbles
 2. Gravel
 3. Sand
 4. Fines
- 13-42. What is the percentage of gravels contained in the sample?
1. 48.3%
 2. 51.7%
 3. 62.5%
 4. 88.7%
- 13-43. A sieve analysis data sheet shows that the original weight of a test sample exceeds the total weight of fractions, resulting in a percentage error that is smaller than the maximum permissible error. Which of the following actions should you take?
1. Disregard the value of the error
 2. Rerun the test
 3. Add the value of the error to the largest amount retained by any sieve
 4. Add the value of the error to the smallest amount retained by any sieve
- 13-44. When is it necessary to prewash a sample before proceeding with a normal dry sieve analysis?
1. When the sample contains a surplus of superfine materials
 2. When the sample has an undesirable water content
 3. When the sample is too dry
 4. When the sample contains too little superfine materials

- 13-45. During a sieve analysis, 2% of the material passed the No. 200 sieve. What subsequent test, if any, should you perform on the sample to determine this soil's susceptibility to frost?
1. Hydrosopic moisture content
 2. Hydrometer analysis
 3. Specific gravity
 4. None
- 13-46. After a sieve analysis has been performed, which of the following materials should be tested for specific gravity of solids?
1. Only those larger than the No. 40 sieve
 2. Only those retained on the No. 4 sieve
 3. Only those passing the No. 4 sieve
 4. Materials passing the No. 200 sieve

W_s	=	102.3
W_{bw}	=	536.1
W_{bws}	=	600.5
K	=	0.9975
G_a	=	2.58
G_m	=	2.58
Percent Gravel = 60%		
Percent Sands and Fines = 40%		

Figure 13C

IN ANSWERING QUESTIONS 13-47 AND 13-48, REFER TO THE DATA IN FIGURE 13C.

- 13-47. Find the specific gravity of solids.
1. 2.67
 2. 2.69
 3. 2.71
 4. 2.73
- 13-48. Find the composite specific gravity.
1. 2.42
 2. 2.52
 3. 2.62
 4. 2.64

13-49. Which of the following errors will have the greatest negative impact on the accuracy of a specific gravity test?

1. Loss of material
2. Misreading the thermometer by 1°
3. Not soaking a clean, sandy soil before exhausting the air from the volumetric flask
4. Failing to apply the correction factor (K)

13-50. What should be the surface appearance of a saturated-surface-dry soil sample?

1. Very wet
2. Damp
3. Very dry

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ATTERBERG LIMITS DETERMINATION						DATE
PROJECT			EXCAVATION NUMBER		SAMPLE NUMBER	
LIQUID LIMIT, W_L						
RUN NUMBER	1	2	3	4	5	6
TARE NUMBER	41	42	43	44	45	46
A. WEIGHT OF WET SOIL + TARE	43.96	41.78	43.92	41.51	43.38	43.73
B. WEIGHT OF DRY SOIL + TARE	41.07	38.84	40.92	38.45	40.23	34.16
C. WEIGHT OF WATER, $W_w (A - B)$						
D. WEIGHT OF TARE	34.04	32.06	34.29	31.88	33.76	34.16
E. WEIGHT OF DRY SOIL, $W_s (B - D)$						
WATER CONTENT, $w = (\frac{W_w}{W_s} \times 100)$						
NUMBER OF BLOWS	49-50-51	39-41	32-34	29-29	23-24-25	18-19
W_L LL =		W_p PL = 42.0		$I_p (W_L - W_p)$ PI =		
PLASTIC LIMIT, W_p						NATURAL WATER CONTENT
RUN NUMBER						
TARE NUMBER						
F. WEIGHT OF WET SOIL + TARE						
G. WEIGHT OF DRY SOIL + TARE						
H. WEIGHT OF WATER, $W_w (F - G)$						
I. WEIGHT OF TARE						
J. WEIGHT OF DRY SOIL, $W_s (G - I)$						
WATER CONTENT, $w = (\frac{W_w}{W_s} \times 100)$						
PLASTIC LIMIT, I_p (Average w)						
REMARKS						
TECHNICIAN (Signature)		COMPUTED BY (Signature)		CHECKED BY (Signature)		

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Figure 13D

IN ANSWERING QUESTIONS 13-51 THROUGH 13-54, REFER TO FIGURE 13D.

- 13-51. What is the water content of run number 1?
1. 30.3
 2. 38.5
 3. 41.1
 4. 43.2
- 13-52. What are the coordinates of run number 2?
1. 39 and 41.0
 2. 39 and 41.1
 3. 40 and 43.4
 4. 41 and 43.4
- 13-53. What is the liquid limit of this soil sample?
1. 47.1
 2. 48.0
 3. 49.2
 4. 49.8
- 13-54. What is the plasticity index of this soil sample?
1. 5.1
 2. 5.5
 3. 6.0
 4. 7.2
- 13-55. The slump test measures what property of concrete?
1. Workability
 2. Strength
 3. Durability
 4. Compressibility
- 13-56. To ensure a slump test specimen is a good representation of the concrete batch, you must take samples at two or more regularly spaced intervals during discharge from which portion of the batch?
1. First only
 2. Middle only
 3. First and middle
 4. Last
- 13-57. In a slump test, each layer of concrete is rodded how many strokes?
1. 10
 2. 15
 3. 25
 4. 30
- 13-58. When a slump test is performed, the entire procedure from the beginning of the sampling process through the removal of the slump cone from the specimen should NEVER exceed what maximum number of minutes?
1. 7½
 2. 17½
 3. 20
 4. 22½
- 13-59. To what extent do the sampling procedures for cylinder specimens differ from those for slump tests?
1. Much different procedures are used
 2. The same procedures are used
 3. Nearly the same procedures are used, except that the samples are taken from the discharge of the first portion of the batch
- 13-60. When preparing standard size cylinder specimens, you should (a) fill the mold with what total number of layers, and (b) rod each layer with a total of how many strokes?
1. (a) 2 (b) 25
 2. (a) 2 (b) 50
 3. (a) 3 (b) 25
 4. (a) 3 (b) so
- 13-61. When the maximum size of coarse aggregate is 3 inches, what should be the minimum cross-sectional dimensions of the beam specimen?
1. 6 in by 6 in
 2. 6 in by 9 in
 3. 9 in by 9 in
 4. 9 in by 12 in
- 13-62. While the functions of all the other SEABEE ratings relate to the whole of a construction project, the EA's functions are related to only the site preparation and layout phases.
1. True
 2. False
- 13-63. The responsibilities of an NMCB engineering division include which of the following tasks?
1. Providing as-built copies of drawings to customer activities
 2. Maintaining construction project status boards
 3. Both 1 and 2 above

- 13-64. The responsibilities of a battalion's monitoring/reporting division include which of the following tasks?
1. Maintaining project status records
 2. Timekeeping and labor analysis
 3. Preparing project completion letters
 4. All of the above
- 13-65. The components of a PWD engineering division include which of the following branches?
1. Planning and estimating branch
 2. Civil branch
 3. Both 1 and 2 above
 4. Inspection branch
- 13-66. A crew leader/supervisor who asks questions relative to assigned tasking is demonstrating weak leadership.
1. True
 2. False
- 13-67. You are informed that your survey crew is not being efficient in performing assigned survey tasks. Which of the following conditions may be an underlying cause of this inefficiency?
1. Crew members were not properly briefed as to the scope of their assigned tasks
 2. Each crew member did not understand his assigned responsibilities
 3. The importance of assigned tasks in relation to overall mission of the unit was not emphasized
 4. All of the above
- 13-68. Prints that are smaller than size B should be stored in a standard deep-drawer cabinet in which of the following ways?
1. On edge
 2. Flat
 3. Rolled
 4. Folded
- 13-69. What is the final folded size of prints in accordion-pleat type of folds?
1. 8 3/8 by 10 7/8 inches
 2. 8 1/2 by 11 inches
 3. 8 3/4 by 11 inches
 4. 9 by 11 inches
- 13-70. For easy reference, prints or drawings for active projects should be stored in which of the following ways?
1. In folders
 2. In stick files
 3. In deep-drawer cabinets
 4. Rolled
- 13-71. Which of the following shore activities generally use the Standard Subject Identification Codes System for the filing of drawing records?
1. Public Works Centers
 2. Naval Construction Battalion Centers
 3. Naval Construction Regiments
 4. All of the above
- 13-72. Which of the following information should always be recorded on the index card for your drawing files?
1. Drawing title and number
 2. Cross-referenced correspondence relating to the drawing(s)
 3. Name of agency that made the drawing
 4. All of the above
- 13-73. As the librarian for the Engineering Technical Library, you are responsible for which of the following tasks?
1. Ensuring that the publications are all in their proper location
 2. Maintaining an efficient check-out/check-in system
 3. Taking action, as necessary, to ensure that any lost or missing required publications are obtained
 4. All of the above
- 13-74. As an Engineering Aid, which of the following references should you consult to find all the requirements that you must satisfy for advancement to the next higher paygrade?
1. NAVEDTRA 10696
 2. NAVFAC P-485
 3. NAVEDTRA 71635
 4. OPNAVINST 5110.4

- 13-75. Which of the following information does the Personnel Readiness Capability Program provide?
1. Information of skills of each crew member
 2. Detailed personnel skill information to all levels of the Naval Construction Forces
 3. Information to be used for better command and planning in matters of readiness, capability, training, and logistical support at all levels
 4. All of the above

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TITLE _____ NAVEDTRA _____

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Last First Middle Street/Ship/Unit/Division, etc.

RANK/RATE _____ SOC. SEC. NO. _____ City or FPO State Zip
DESIGNATOR _____ ASSIGNMENT NO. _____

☐ USN ☐ USNR ☐ ACTIVE ☐ INACTIVE OTHER (Specify) _____ DATE MAILED _____

SCORE

1	2	3	4		1	2	3	4		1	2	3	4				
T	F				T	F				T	F						
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	26	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	51	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	27	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	52	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	28	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	53	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
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THIS FORM MAY BE LOCALLY REPRODUCED

